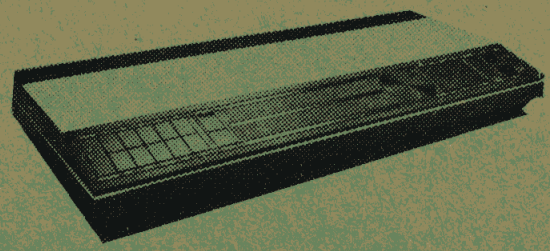
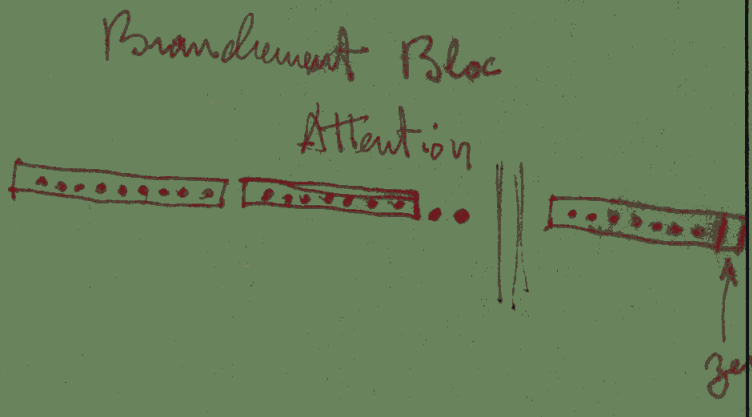
Bang&Olufsen



BEOCENTER 4000

TYPE 1603



MANUEL d'ENTRETIEN

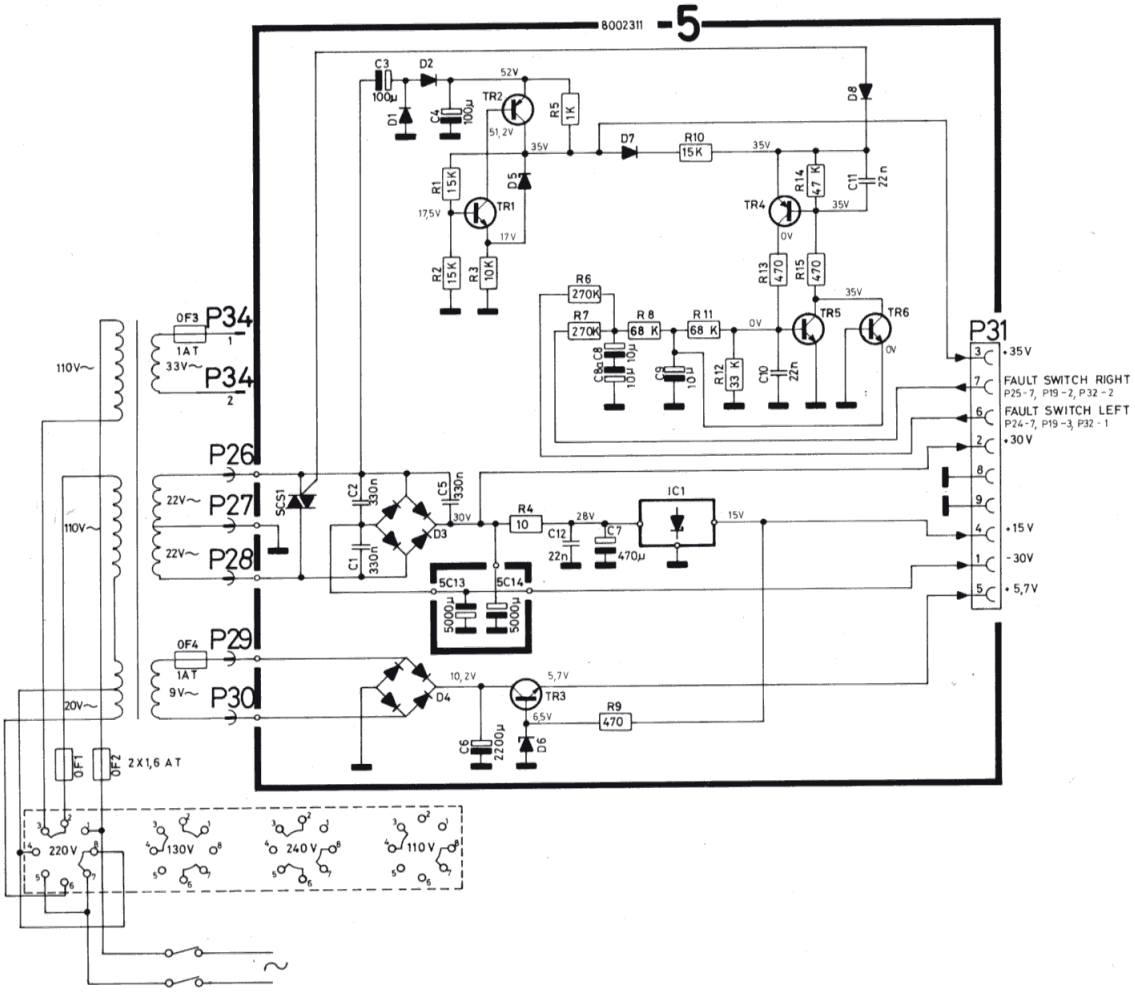
Erklärung zu den Schaltbildern

Alle Steckerverbindungen sind mit einer Steckernummer und einer Anzahl Stiftnummern, z. B. P3, Stiftnummern von 1 bis 3, versehen. Ferner ist angeführt, zu welchen Stift oder Stiften die Verbindung hingeht, z. B. MUTING SWITCH P4 - 3, P24 - 3 und P25 - 3, und dies bedeutet, das Verbindung an insgesamt drei anderen Steckern besteht.
Speisespannungen, die an eine größere Anzahl Stecker angeschlossen ist, werden bloß mit beispielsweise + 35 V SUPPLY bezeichnet.

Buchse auf der Leiterplatte oder kurze Leitungen, die an Steckerstifte auf der Bodenplatte angeschlossen werden.

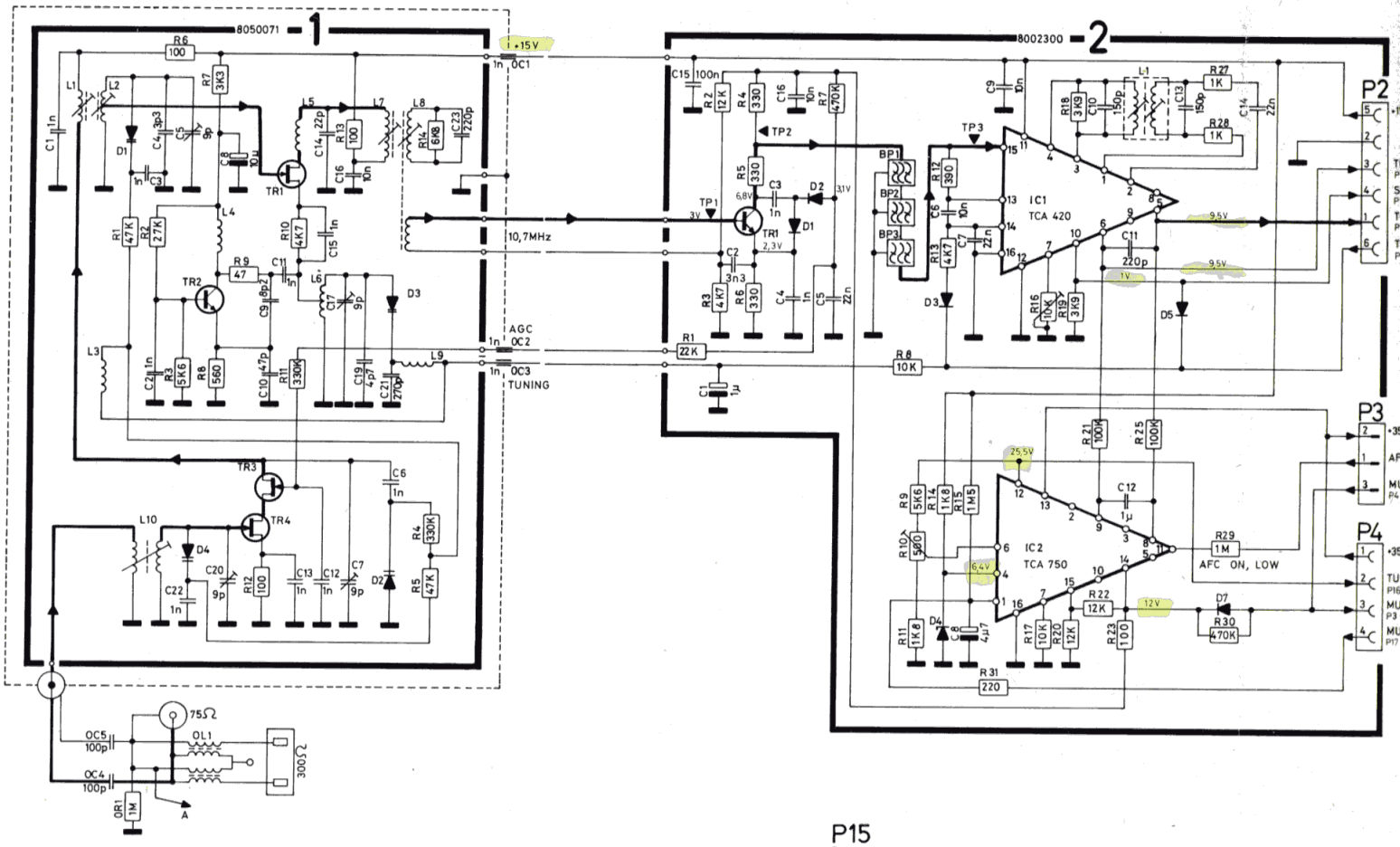
Steckerstifte auf der Bodenplatte.

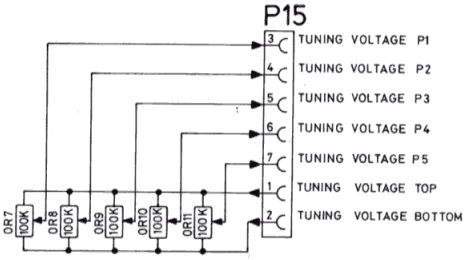
Sonstige Stecker- und Buchsenverbindungen, beispielsweise an Netztransformator und Anzeigelampen.

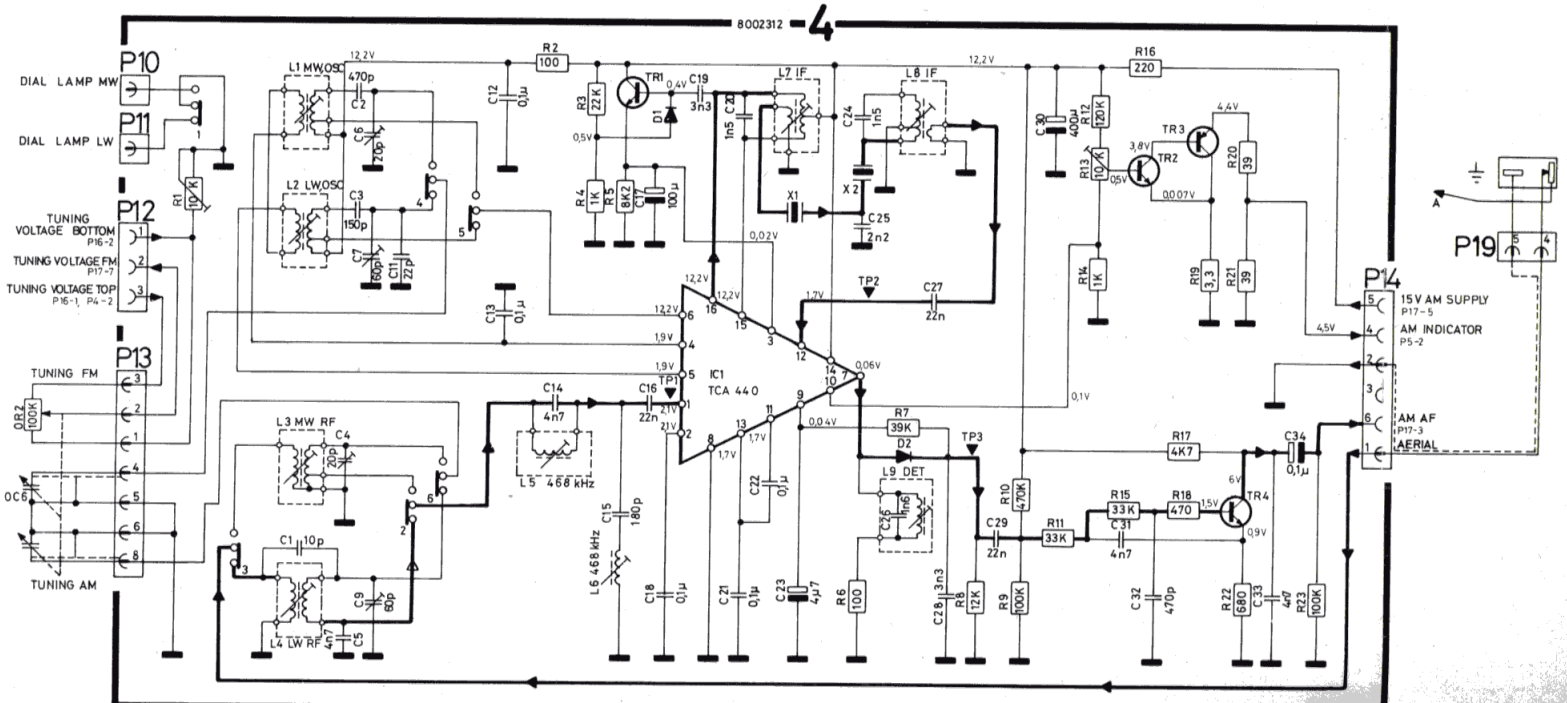


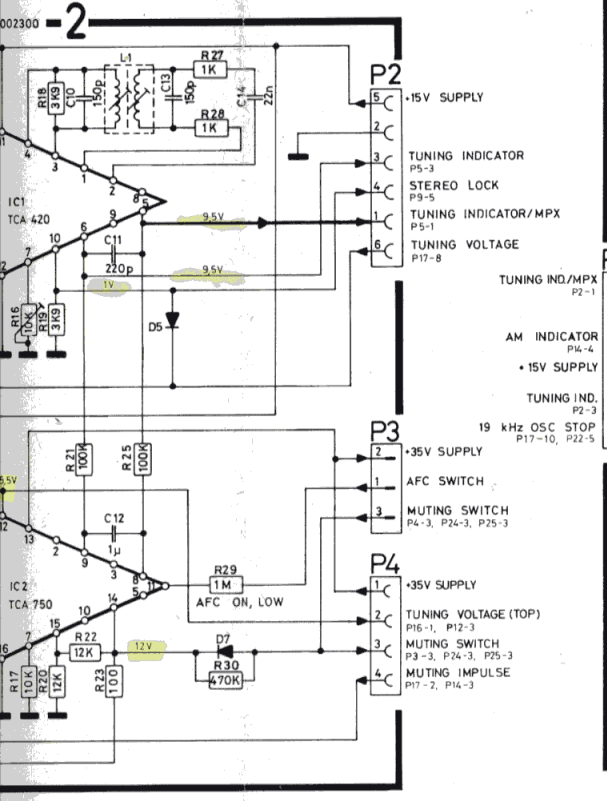
1-3

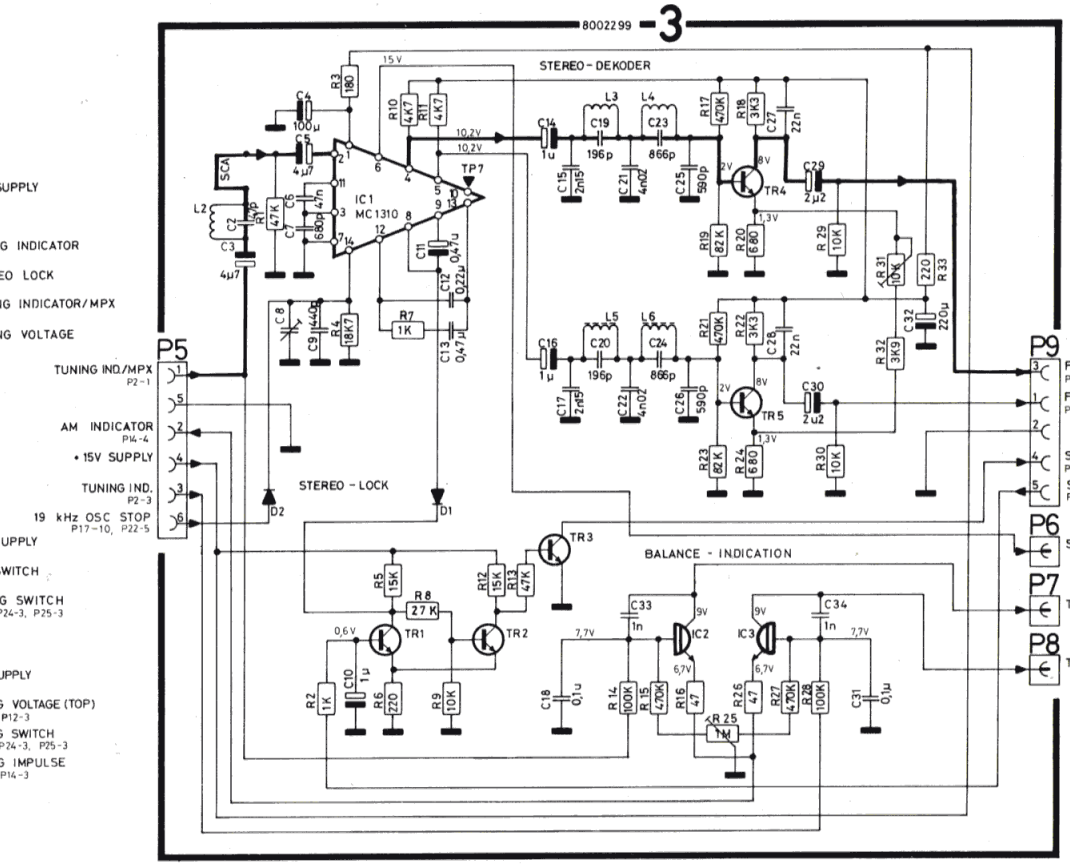
Diagram 1

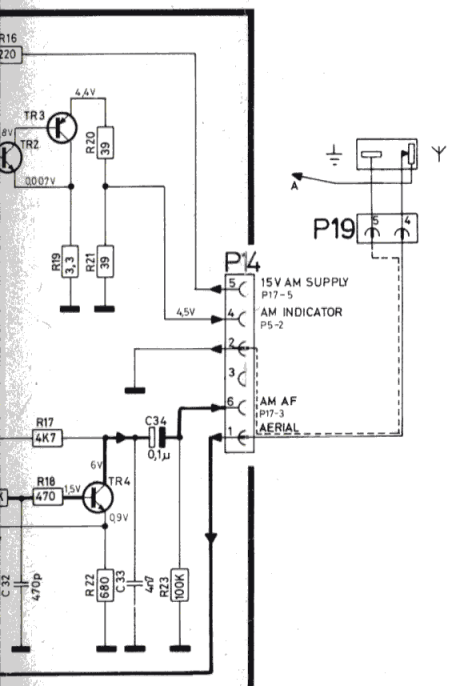

8050071 -1
8002300 -2
+15V
OC1
OC2
OC3
AGC
TUNING
10,7MHz
IC1
TCA 420
IC2
TCA 750
AFC ON, LOW
P2
P3
P4
75Ω
300Ω
OC5
OC4
OL1
OR1

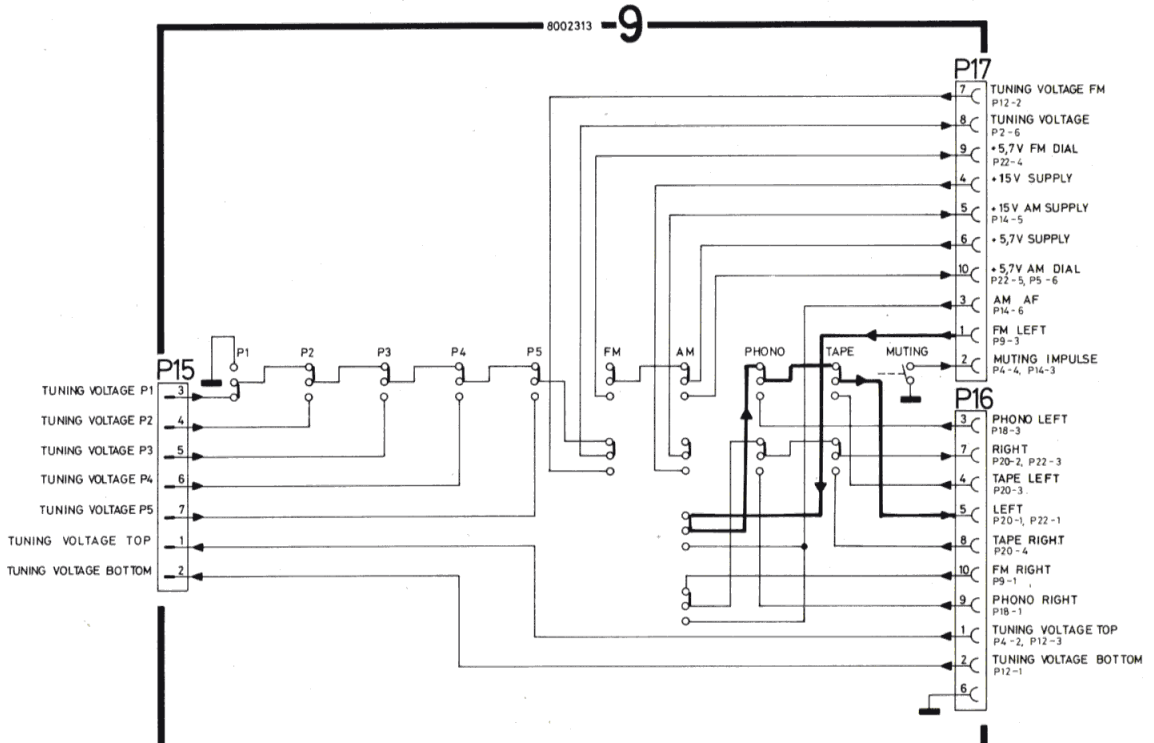

P15
TUNING VOLTAGE P1
TUNING VOLTAGE P2
TUNING VOLTAGE P3
TUNING VOLTAGE P4
TUNING VOLTAGE P5
TUNING VOLTAGE TOP
TUNING VOLTAGE BOTTOM


8002312 -4
P10
DIAL LAMP MW
P11
DIAL LAMP LW
P12
TUNING VOLTAGE BOTTOM P16-2
TUNING VOLTAGE FM P17-7
TUNING VOLTAGE TOP P16-1, P4-2
P13
TUNING FM
TUNING AM
L1 MW OSC
L2 LW OSC
L3 MW RF
L4 LW RF
L5 468 kHz
L6 468 kHz
L7 IF
L8 IF
L9 DET
IC1
TCA 440
TR1
TR2
TR3
TR4
X1
X2
P14
15 V AM SUPPLY P17-5
AM INDICATOR P5-2
AM AF P17-3
AERIAL
P19


002300 -2
P2
+15V SUPPLY
TUNING INDICATOR
P5-3
STEREO LOCK
P9-5
TUNING INDICATOR/MPX
P5-1
TUNING VOLTAGE
P17-8
IC1
TCA 420
9,5V
1V
P3
+35V SUPPLY
AFC SWITCH
MUTING SWITCH
P4-3, P24-3, P25-3
P4
+35V SUPPLY
TUNING VOLTAGE (TOP)
P16-1, P12-3
MUTING SWITCH
P3-3, P24-3, P25-3
MUTING IMPULSE
P17-2, P14-3
IC2
TCA 750
AFC ON, LOW
12V

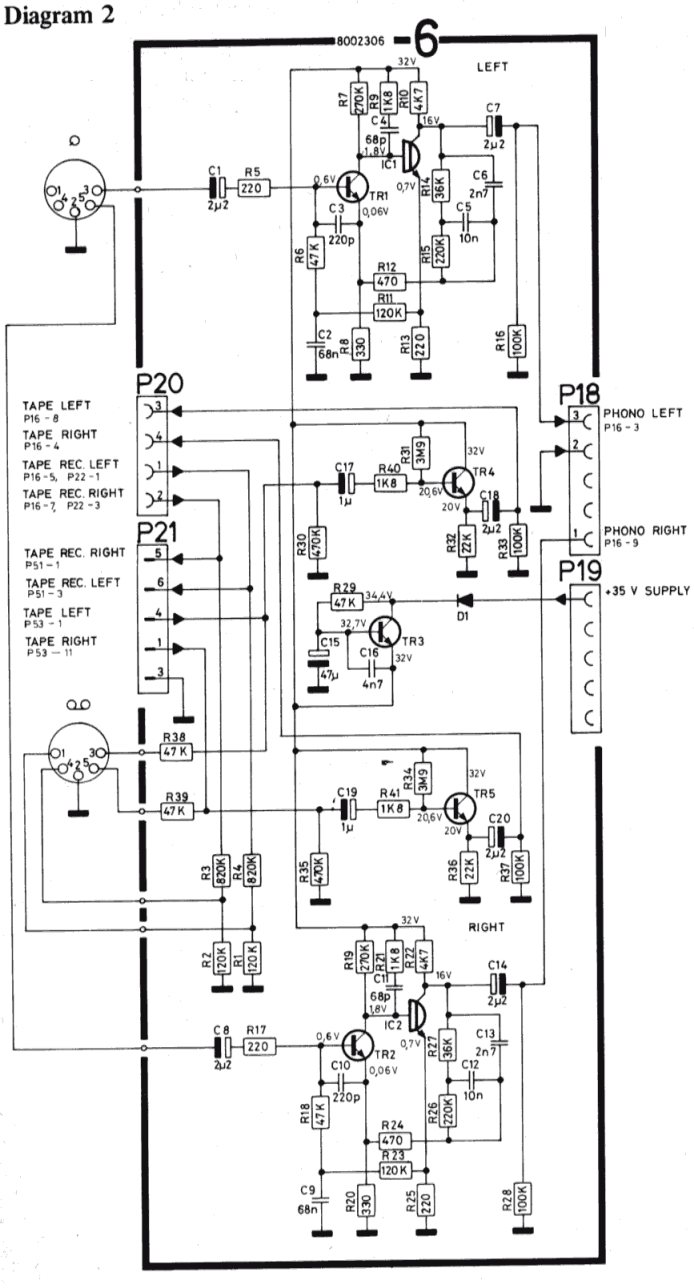

8002299 -3
STEREO-DEKODER
IC1
MC1310
TP7
10,2V
SCA
P5
TUNING IND./MPX
P2-1
AM INDICATOR
P14-4
+15V SUPPLY
TUNING IND.
P2-3
19 kHz OSC STOP
P17-10, P22-5
STEREO-LOCK
D1
D2
BALANCE-INDICATION
TR1
TR2
TR3
TR4
TR5
IC2
IC3
P9
FM LEFT
P17-1
FM RIGHT
P16-10
SILENT TUNING
P3-7
STEREO LOCK
P2-4
P6
STEREO IND.
P7
TUNING IND.
P8
TUNING IND.

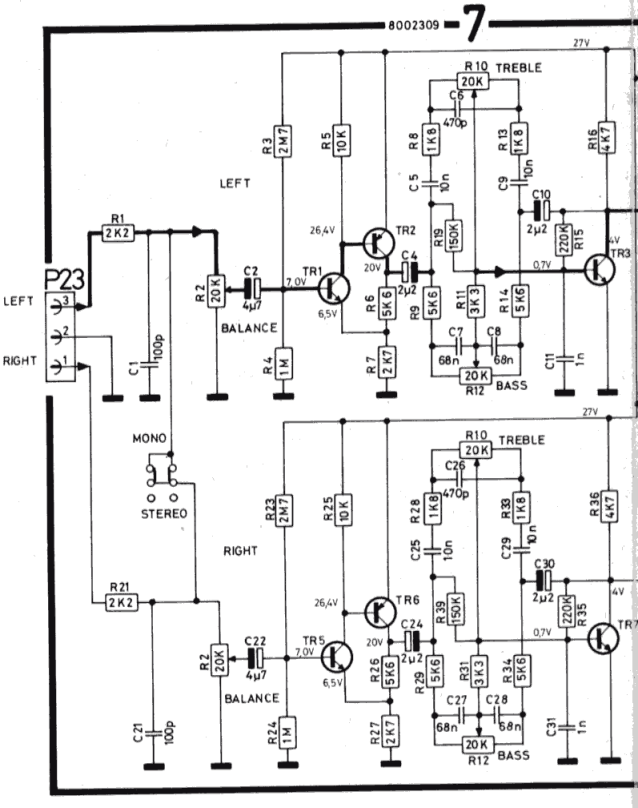

P14
15V AM SUPPLY
P17-5
AM INDICATOR
P5-2
AM AF
P17-3
AERIAL
P19
TR2
TR3
TR4
4,4V
4,5V
6V
0,9V


8002313 -9
P15
TUNING VOLTAGE P1
TUNING VOLTAGE P2
TUNING VOLTAGE P3
TUNING VOLTAGE P4
TUNING VOLTAGE P5
TUNING VOLTAGE TOP
TUNING VOLTAGE BOTTOM
FM
AM
PHONO
TAPE
MUTING
P17
TUNING VOLTAGE FM
P12-2
TUNING VOLTAGE
P2-6
+5,7V FM DIAL
P22-4
+15V SUPPLY
+15V AM SUPPLY
P14-5
+5,7V SUPPLY
+5,7V AM DIAL
P22-5, P5-6
AM AF
P14-6
FM LEFT
P9-3
MUTING IMPULSE
P4-4, P14-3
P16
PHONO LEFT
P18-3
RIGHT
P20-2, P22-3
TAPE LEFT
P20-3
LEFT
P20-1, P22-1
TAPE RIGHT
P20-4
FM RIGHT
P9-1
PHONO RIGHT
P18-1
TUNING VOLTAGE TOP
P4-2, P12-3
TUNING VOLTAGE BOTTOM
P12-1

Bang&Olufsen

Diagram 2





OVERSIGT OVER STIKPLACERING

Nedenstående oversigtstegning viser stikker
cering på diagramsiderne.

SURVEY OF PLACEMENT OF PLUGS/SOCKE

Below is shown the placement of plugs and
in the diagrammes.

ÜBERSICHT ÜBER ANBRINGUNG VON STEC

Untenstehende Übersichtszeichnung zeigt
bringung der Stecker auf den Schaltbildern

Diagram 1

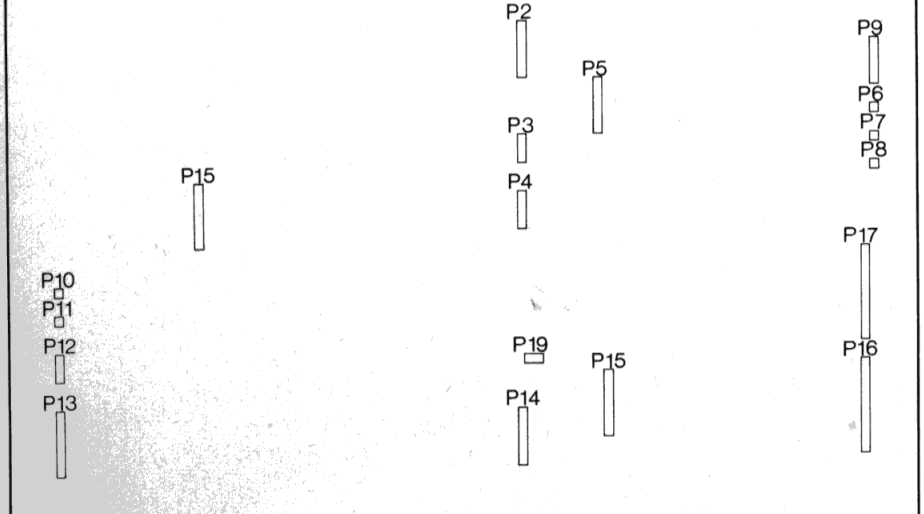
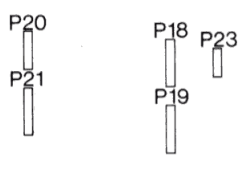
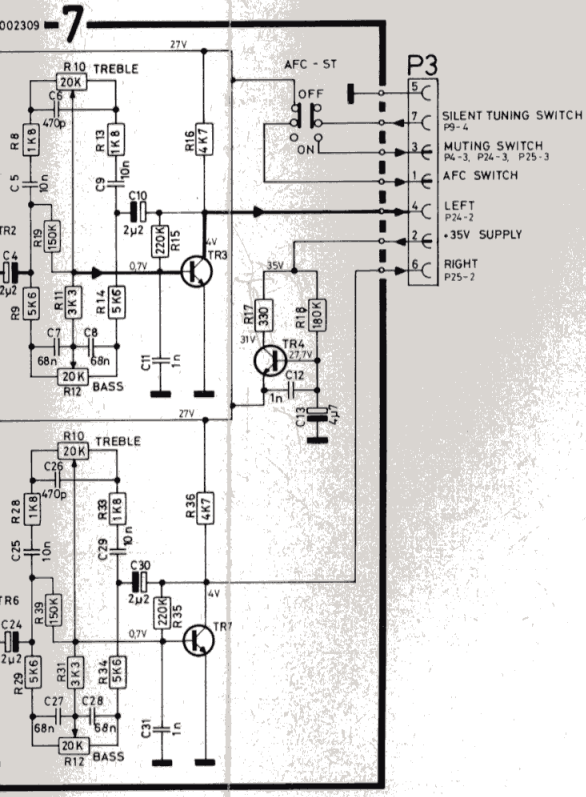
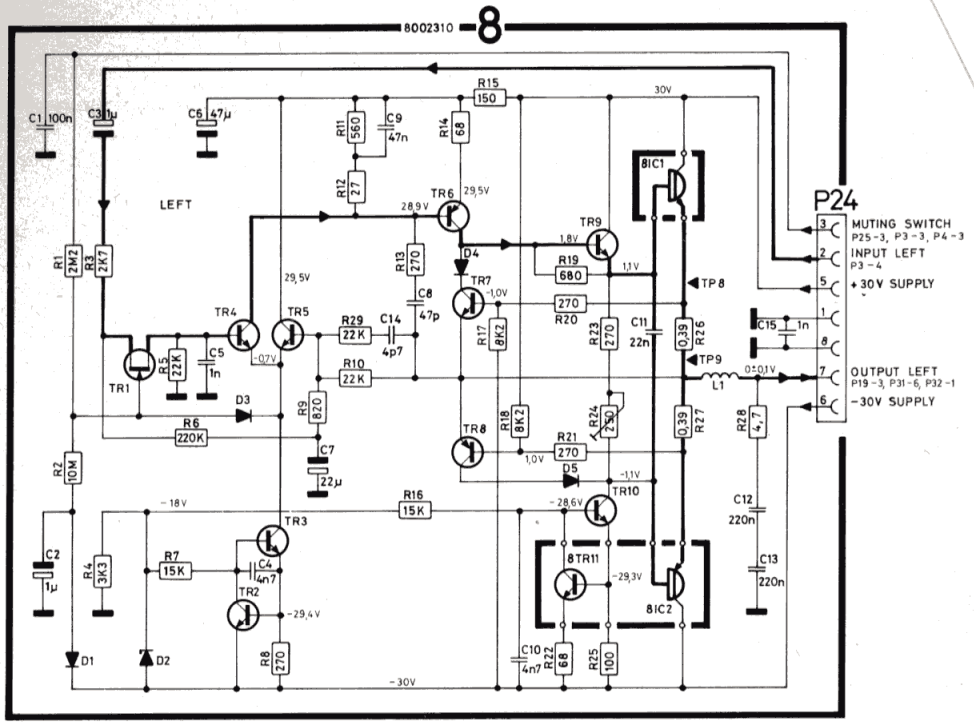


Diagram 2







KPLACERING

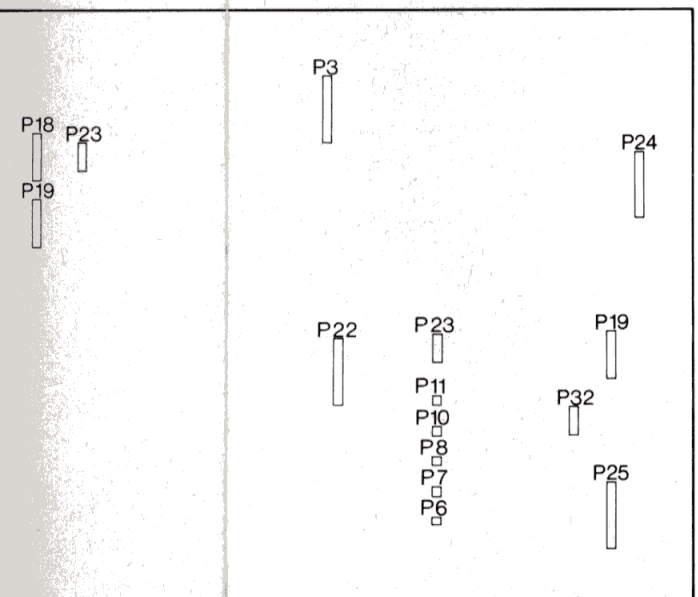
gtstegning viser stikkenes pla-
erne.

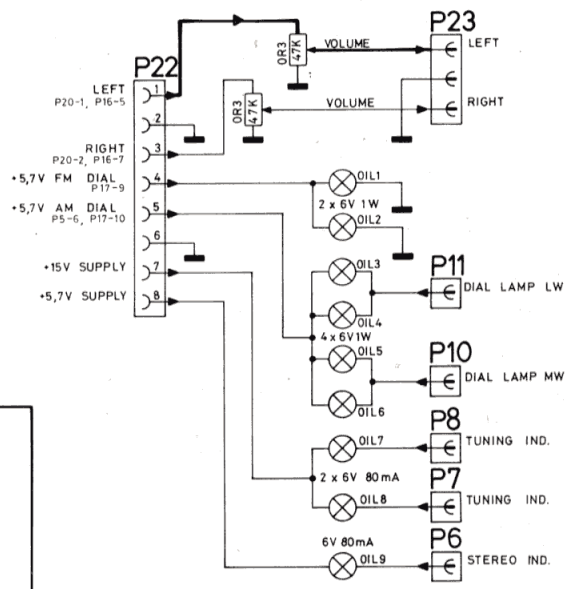
ENT OF PLUGS/SOCKETS

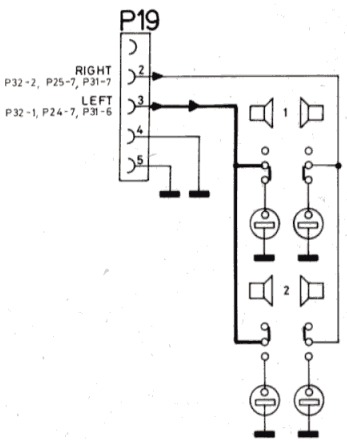
placement of plugs and sockets

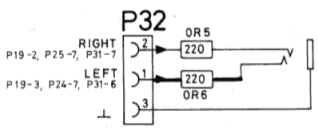
NBRINGUNG VON STECKERN

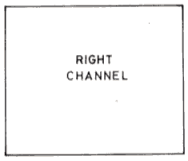
sichtszeichnung zeigt die An-
auf den Schaltbildern.











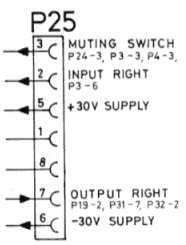
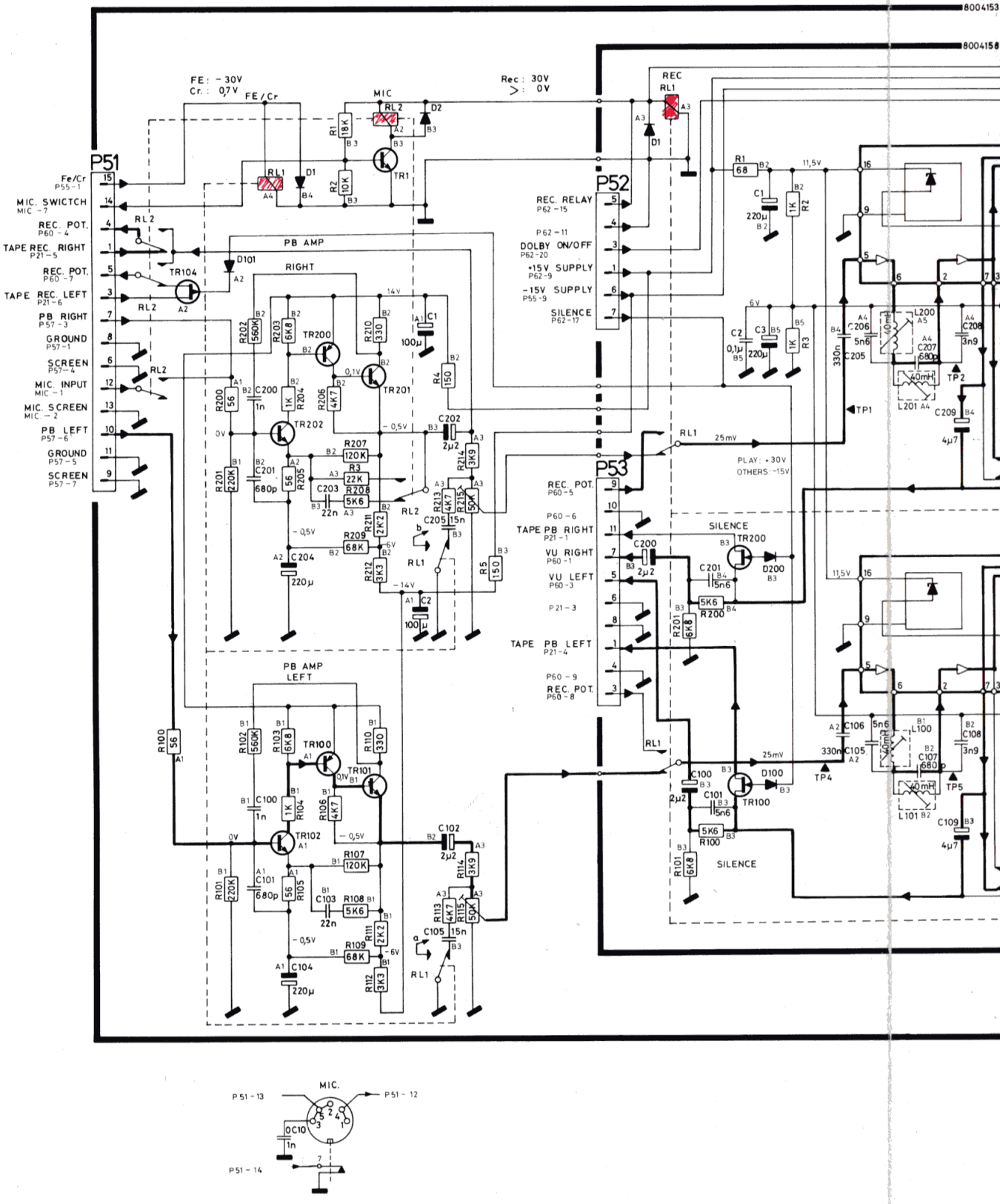
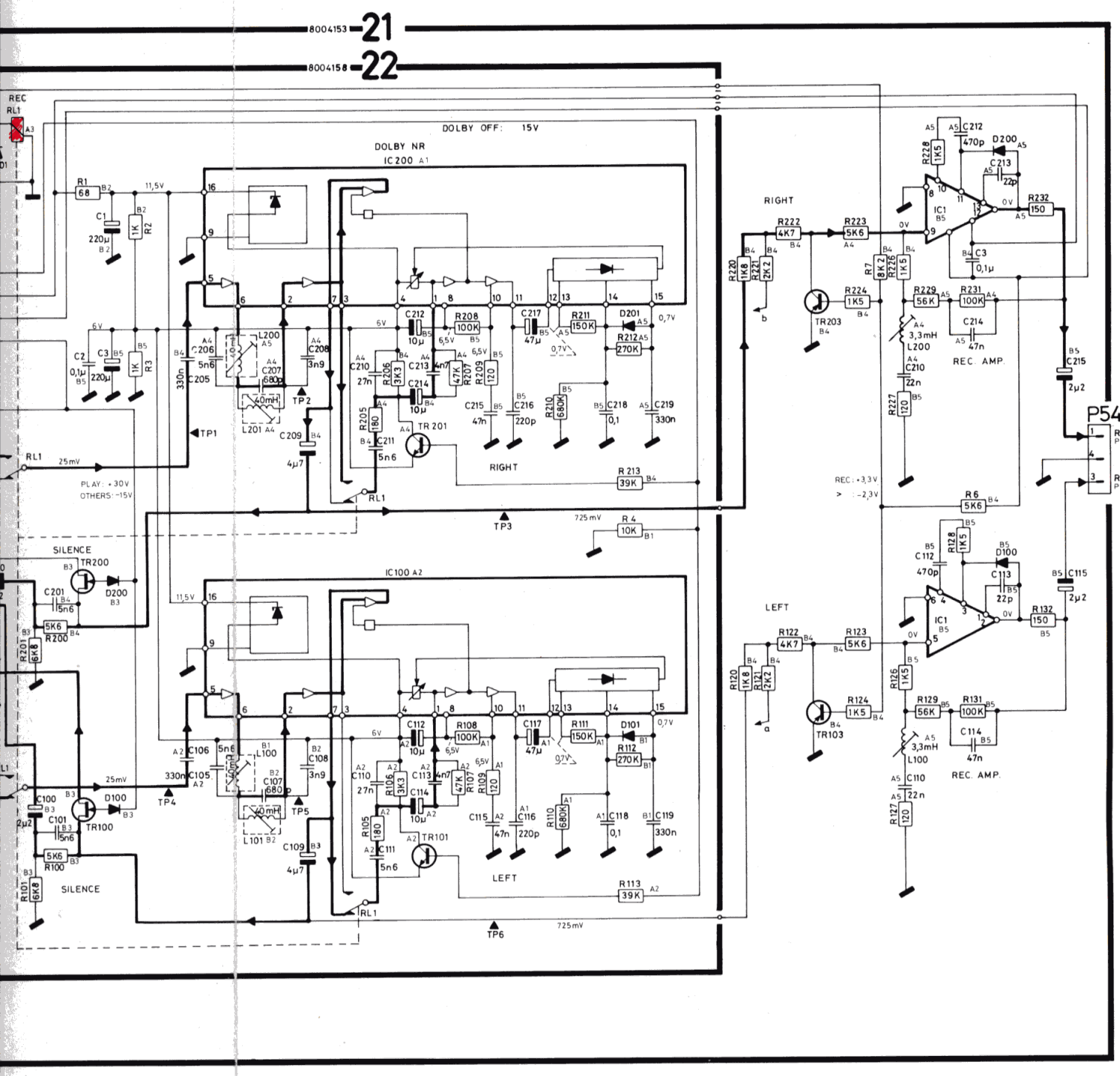


Diagram 3


8004153
8004158
FE: -30V
Cr: 0,7V
FE/Cr
MIC
Rec: 30V
0V
REC
P51
P52
P53
Fe/Cr
MIC. SWICTCH
REC. POT.
TAPE REC. RIGHT
REC. POT.
TAPE REC. LEFT
PB RIGHT
GROUND
SCREEN
MIC. INPUT
MIC. SCREEN
PB LEFT
GROUND
SCREEN
REC. RELAY
DOLBY ON/OFF
+15V SUPPLY
-15V SUPPLY
SILENCE
PB AMP
RIGHT
PB AMP
LEFT
TR100
TR101
TR102
TR200
TR201
TR202
TR104
D100
D101
D200
D1
D2
RL1
RL2
TP1
TP2
TP4
TP5
PLAY: +30V
OTHERS: -15V
SILENCE
MIC.
P51-13
P51-12
P51-14
0C10

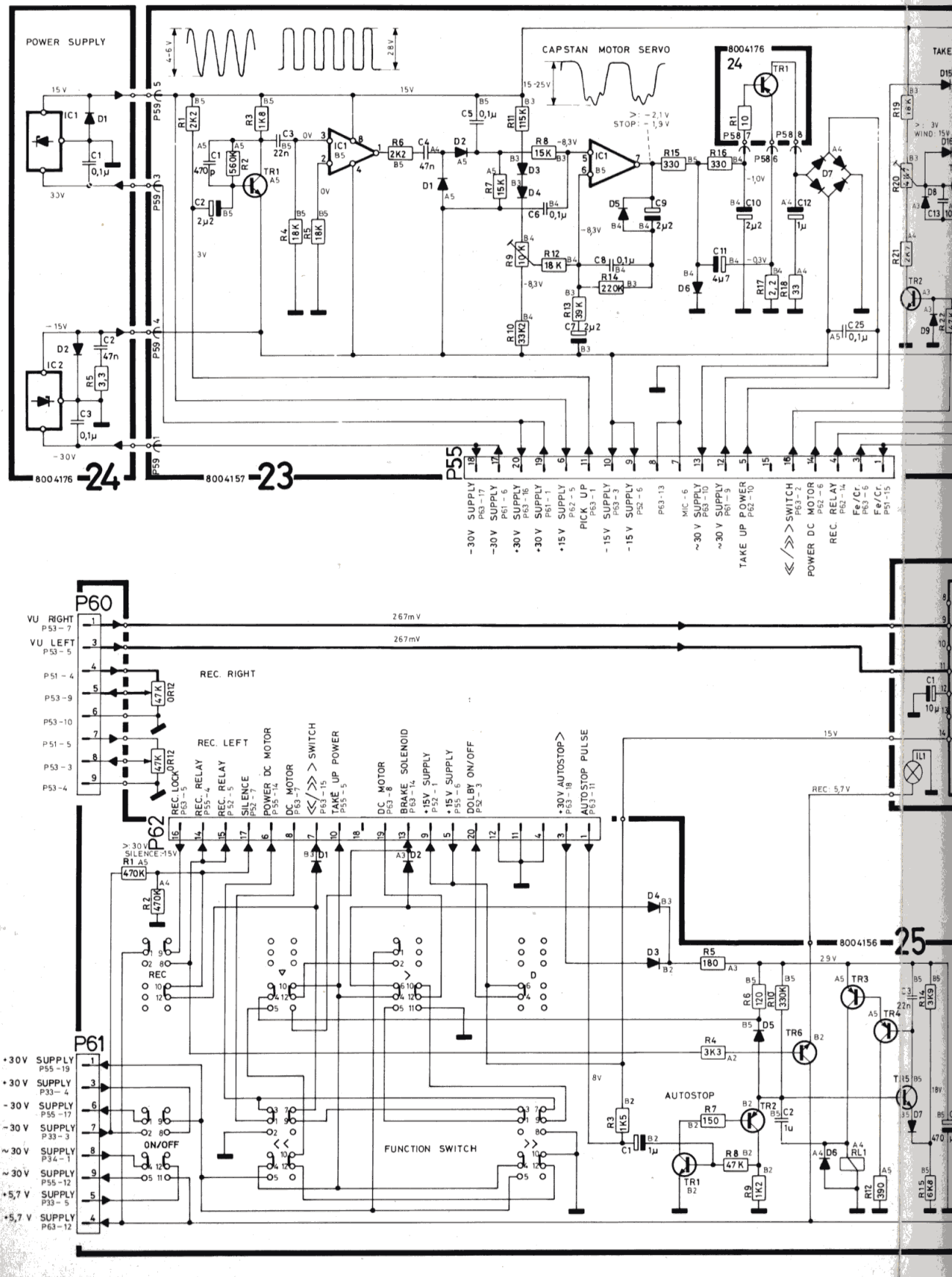
8004153 21

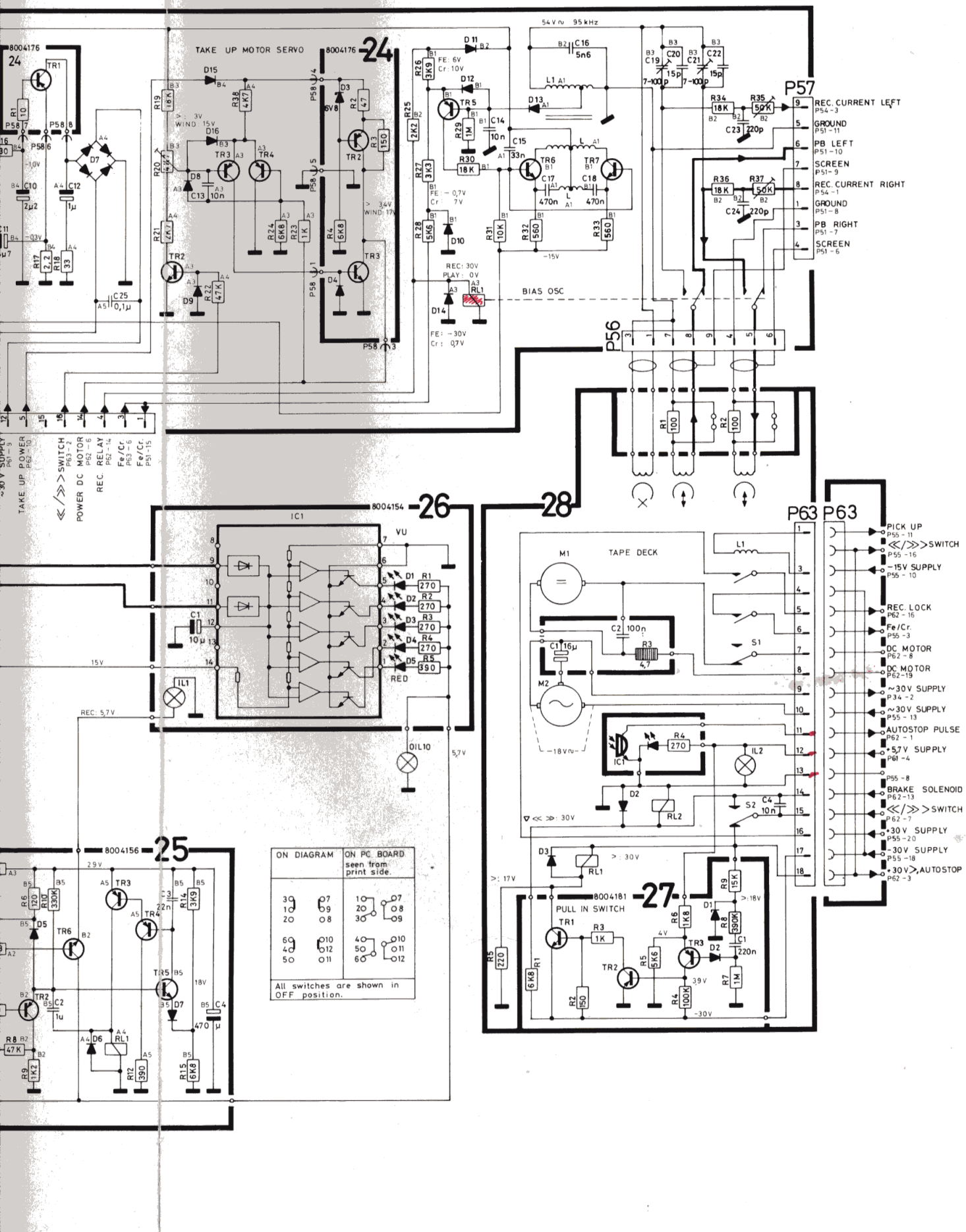
8004158 22



Bang & Olufsen

DIAGRAM 4

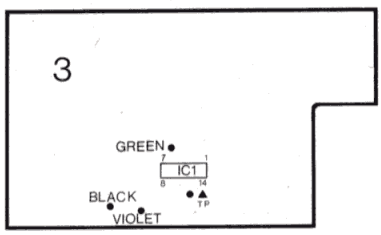


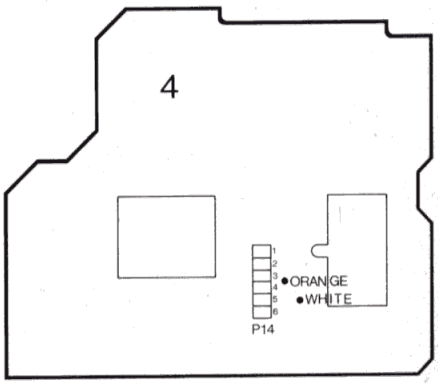

8004176 24
TAKE UP MOTOR SERVO
8004176 24
54 V rv 95 kHz
P57
REC. CURRENT LEFT P54-3
GROUND P51-11
PB LEFT P51-10
SCREEN P51-9
REC. CURRENT RIGHT P54-1
GROUND P51-8
PB RIGHT P51-7
SCREEN P51-6
BIAS OSC
P56
REC: 30V
PLAY: 0V
FE: -30V
Cr: 0,7V
-15V
TAKE UP POWER P62-10
POWER DC MOTOR P62-6
REC. RELAY P62-14
Fe/Cr P62-6
Fe/Cr P51-15
8004154 26
IC1
VU
RED
REC: 5,7V
5,7V
8004156 25
ON DIAGRAM
ON PC BOARD seen from print side.
All switches are shown in OFF position.
28
M1
TAPE DECK
M2
-18V rv-
P63 P63
PICK UP P55-11
≪/≫ SWITCH P55-16
-15V SUPPLY P55-10
REC. LOCK P62-16
Fe/Cr. P55-3
DC MOTOR P62-8
DC MOTOR P62-19
~30V SUPPLY P34-2
~30V SUPPLY P55-13
AUTOSTOP PULSE P62-1
+5,7V SUPPLY P61-4
P55-8
BRAKE SOLENOID P62-13
≪/≫ SWITCH P62-7
+30V SUPPLY P55-20
-30V SUPPLY P55-18
+30V, AUTOSTOP P62-3
8004181 27
PULL IN SWITCH

SERVICE TIPS

Dépannage circuits

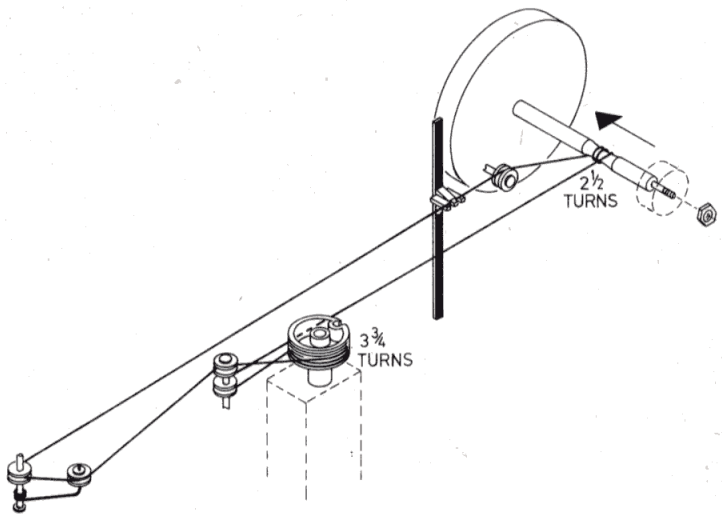
Les circuits peuvent plus facilement être enlevés de la manière suivante:
Oter d'abord les vis. Tirer doucement dans les prises du cirduit à l'aide d'une pince pointue.





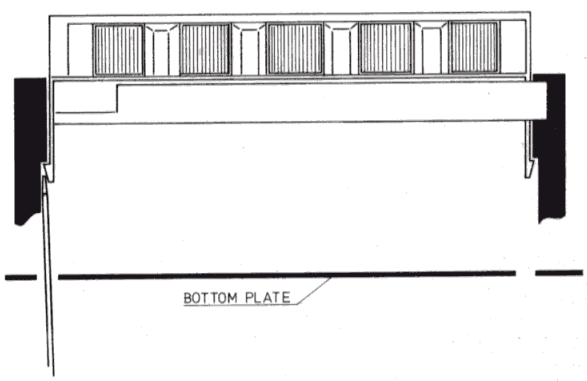
– Les différentes couleurs des fils libres sont indiquées sur le croquis.

Entraînement de l'index



La cordelette de l'index (n° de référence 3955016) doit être coupée sur une longueur de 95 cm. Nouer les extrémités, de sorte qu'une boucle de 44 cm apparaît. Pous placer les nœuds dans "l'œil" situé sur la poulie à cordelette. La cordelette doit étre montée comme il est indiqué sur le croquis.
REMARQUE: Le volant du cadran doit être démonté, pour pouvoir remplacer la cordelette.

Preset



Pour enlever le tiroir "preset", il faut mettre un tournevis dans les trous situés au fond de l'appareil sous le tiroir "Preset" puis basculer les glissières à l'extérieur des serrures.